DAS Data Product Files (Total Volume)	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
First-Look Analysis, 1 day (3.94 GB)	~	~	V	V	V	V	>	~	
Final Platform Analysis, 1 day (3.44 GB)	✓	✓	>	>	>	✓	>		
10-day Forecast** (19.47 GB)	✓	✓	>						
10-day Forecast, Archived (1.69 GB)									✓

Parameter Group	Parameter	Name (Team)	Units	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
Precipitation an Moisture	nd											
	Soil Moisture (shallow)	SMSHAL		X							X (1 level)	
	Soil Moisture (root)	SMROOT		X							X (1 level)	
	Soil Moisture (deep)	SMDEEP		X							X (1 level)	
	Surface Evaporation	EVAP	mm/day	X							,	
	Saturation Surface Specific Humidity	QS	g/kg	X							X (1 level)	
	Near-Surface Specific Humidity, 2 meters	Q2M	kg/kg	X						X	X (1 level)	
	Near-Surface Specific Humidity, 10 meters	Q10M	kg/kg	X						X	X (1 level)	
	Specific Humidity Profile	SPHU	g/kg		X	X	X			X	X	X
	Moisture Change due to Turbulence	TURBQ	g/kg/day		X	X						
	Moisture Change due to Moisture	MOISTQ			X	X						
	Vertically Integrated U*Q	VINTUQ	(m/sec)(g/kg)	X								
	Vertically Integrated V*Q		(m/sec)(g/kg)	X								
	Mixing Ratio Profile	MIXR	g/kg					X	X	X		
	Mixing Ratio Profile (errors)	MIXRE	g/kg					X	X		X	
	Relative Humidity Profile	RH	% (0-100)					X	X	X		
	Precipitable Water	QINT	gm/cm**2	X						X	X (1 level)	
	Total Precipitation	PREACC	mm/day	X						X	X (1 level)	X (1 level)
	Convective Precipitation	PRECON	mm/day	X							X (1 level)	X (1 level)
	Snow Depth	SNDPTH		X							X (1 level)	X (1 level)
Clouds, Aerosol & Radiation												
	2-D Cloud Fraction	-	none (0-1)	X							X (1 level)	X (1 level)
	Cloud Mass Flux		kg*m/sec**2			X						
	Convective Cloud Detrainment		kg*m/sec			X						
	Random Overlap Cloud Fraction for LW	·	none (0-1)			X					X	X
	Clear Sky LW Heating Rate	-	deg/day			X						
	Clear Sky SW Heating Rates	-	deg/day			X						
	Outgoing LW Radiation	OLR	w/m**2	X								
	Outgoing LW Radiation, Clear Sky	OLRCLR		X								
	Incident SW Radiation Top of Atmos	RADSWT	w/m**2	X								
	Surface LW Flux, Clear Sky	LWGCLR	w/m**2	X								

^{*} This column lists permanently archived 10-day forecast products.
** The full output from the 10-day forecast is saved only for 30 days.

DAS Data Product Files (Total Volume)	Assimilation,	Assimilation, 24	Assimilation, 70	Increments, 70	Analysis, 24	First Guess, 24	Observations	Fly-through, 24	10-Day FCST,
· · · · · · · · · · · · · · · · · · ·	Single Level	Mandatory	Sigma Levels	Sigma Levels	Mandatory	Mandatory	(4/day)	Mandatory	24 Mandatory
	(8/day)	Levels (4/day)	(4/day)	(4/day)	Level (4/day)	Levels (4/day)		Levels (4/day)	Levels*
First-Look Analysis, 1 day (3.94 GB)	V	✓	V	'	'	'	>	V	
Final Platform Analysis, 1 day (3.44 GB)	✓	V	'	'	✓	'	>		
10-day Forecast** (19.47 GB)	✓	V	'						
10-day Forecast, Archived (1.69 GB)									~

Parameter Group	Parameter	Name (Team)	Units	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
Clouds, Aerosols, & Radiation (Cont'd)	Outgoing SW Radiation											
		OSR	w/m**2	X							X (1 level)	
	Outgoing SW Radiation, Clear Sky	OSRCLR	w/m**2	X							X (1 level)	
	Downward IR	LWDNG	w/m**2	X							, ,	
	Downward Vis	VISDNG		X								
	Albedo - NIR, Difuse		none (0-1)	X							X (1 level)	
	Albedo - NIR, Direct		none (0-1)	X							X (1 level)	
	Albedo - Vis, Difuse		none (0-1)	X							X (1 level)	
	Albedo - Vis, Direct	_	none (0-1)	X							X (1 level)	
	Surface Flux Sensible Heat	_	w/m**2	X							,	
	Surface SW Flux, Clear Sky	SWGCLR		X								
	Net Upward LW Radiation at Ground	RADLWG		X								
	Net Downward SW Radiation at Ground	RADSWG		X								
Land & Ocean Surface Temps		Tom or		T								
	Surface Ground Temperature		deg K	X						X	X (1 level)	X (1 level)
	Time Averaged Ground Temperature	_	deg K	X								
	Surface Virtual Temperature		deg K					X	X			
	Deep Soil Temperature	STDEEP	deg K	X								
Greenhouse Gases & Trop Chem												
	N/A											
Vegetation & Ocean Phytoplankton												
	N/A											
Global Biological Productivity	1											
	N/A											
Radiance & Imagery												
	N/A											

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** The full output from the 10-day forecast is saved only for 30 days.

DAS Data Product Files (Total Volume)	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
First-Look Analysis, 1 day (3.94 GB)	V	~	~	~	~	~	~	~	
Final Platform Analysis, 1 day (3.44 GB)	V	V	✓	V	'	V	~		
10-day Forecast** (19.47 GB)	V	✓	✓						
10-day Forecast, Archived (1.69 GB)									✓

Parameter Group	Parameter	Name (Team)	Units	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
Boundary Conditions		1	1									
	Land, Water, Ice Flags	LWI	none	X								
Air Temperature												
	Surface Air Temperature	TS	deg K	X						X	X (1 level)	X (1 level)
	Temperature (2 meters)	T2M	deg K	X						X	X (1 level)	X (1 level)
	Temperature (10 meters)	T10M	deg K	X						X	X (1 level)	X (1 level)
	Temperature Profile	TMPU	deg K		X	X	X	X	X	X	X	X
	Temperature change due to turbulence	TURBT	deg/day		X	X						
	Temperature change due to moisture	MOISTT	deg/day		X	X						
	Temperature change due to LW rad	RADLW	deg/day		X	X						
	Temperature change due to SW rad	RADSW	deg/day		X	X						
	Vertically Integrated U*T	VINTUT	m/sec deg	X								
	Vertically Integrated V*T	VINTVT	m/sec deg	X								
	Tropopause Temperature	TROPT	deg K	X							X (1 level)	X (1 level)
Pressure & Heights												
	Surface Geopotential Height	PHIS	(m/sec)**2	X				X (1 level)	X (1 level)	X	X (1 level)	
	Surface Pressure - PTOP	PSPTOP	mb	X							X (1 level)	X (1 level)
	Time Average Surface Pressure - PTOP	PAVE	mb	X								
	Surface Pressure	PSFC	mb				X (1 level)	X (1 level)	X (1 level)	X	X (1 level)	X (1 level)
	Sea Level Pressure	SLP	mb	X				X (1 level)	X (1 level)	X		X (1 level)
	Sea Level Pressure (error)	PRSE	mb					X (1 level)	X (1 level)			
	Surface Pressure Tendency	DPDT	mb/day	X								
	Upper Air Geopotential Heights	HGHT	m		X			X	X	X	X	X
	Upper Air Geopotential Heights (error)	HGHTE	m					X	X		X	
	UA Perturbation Geopotential Heights	PHGHT	m			X						
	Tropopause Pressure	TROPP	mb	X							X (1 level)	X (1 level)
Winds												
	Sea Level Winds, U component	SLU	m/sec					X	X	X	X (1 level)	X (1 level)
	Sea Level Winds, V component	SLV	m/sec					X	X		X (1 level)	X (1 level)
	Surface Wind Speed	WINDS	m/sec	X							X (1 level)	
	Vertically Integrated Winds, U comp (Barotropic)	UBAR	m/sec	X								

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DAS Data Product Files (Total Volume)	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
First-Look Analysis, 1 day (3.94 GB)	~	~	V	V	V	V	>	~	
Final Platform Analysis, 1 day (3.44 GB)	✓	✓	>	>	>	✓	>		
10-day Forecast** (19.47 GB)	✓	✓	>						
10-day Forecast, Archived (1.69 GB)									✓

Parameter Group	Parameter	Name (Team)	Units	Assimilation, Single Level (8/day)	Assimilation, 24 Mandatory Levels (4/day)	Assimilation, 70 Sigma Levels (4/day)	Increments, 70 Sigma Levels (4/day)	Analysis, 24 Mandatory Level (4/day)	First Guess, 24 Mandatory Levels (4/day)	Observations (4/day)	Fly-through, 24 Mandatory Levels (4/day)	10-Day FCST, 24 Mandatory Levels*
Winds	Vertically Integrated Winds, V comp											
(Continued)	(Barotropic)	VBAR	m/sec	X								
	Upper Level Winds, U component	UWIND	m/sec		X	X	X	X	X	X		X
	Upper Level Winds, V component	VWIND	m/sec		X	X	X	X	X	X		X
	Winds at 2 meters, U component	U2M	m/sec	X						X		X (1 level)
	Winds at 2 meters, V component	V2M	m/sec	X						X		X (1 level)
	Winds at 10 meters, U component	U10M	m/sec	X						X		X (1 level)
	Winds at 10 meters, V component	V10M	m/sec	X						X		X (1 level)
	Upper Level Winds, U component (error)	UWNDE	m/sec					X	X			
	Upper Level Winds, V component (error)	VWNDE	m/sec					X	X			
	Turbulent Kinetic Energy	QQ	(m/sec)**2		X	X						
	Momentum Changes due to Turbulence, U											
	component	TURBU	m/sec/day		X	X						
	Momentum Changes due to Turbulence, V											
	component	TURBV	m/sec/day		X	X						
	Vertical Velocity	OMEGA	mb/day		X	X						
	Surface Stress, U component	UFLUX	n/m**2	X								
	Surface Stress, V component	VFLUX	n/m**2	X								
	Surface Drag	CT	m/sec	X								
	Surface Drag	CU	m/sec	X								
	U Star	USTAR	m/sec	X								
	PBL Depth	PBL	mb	X								
	Surface Roughness	Z0	m	X								
Chamical Constituents												
	Ozone Profile	OZONE	Dobsons					X			X	
	CO Profile	СО	ppbv					X				

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